Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 24/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /01

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	24/09/2018	151.84 X 151.05 X 149.02	22936	**8.205**	429.2	18.7	18.7
2	RCC	M20	17/09/2018	24/09/2018	151.10 X 149.36 X 149.38	22568	**8.913**	425.8	18.9	
3	RCC	M20	17/09/2018	24/09/2018	150.25 X 150.40 X 151.24	22597	**8.512**	416.7	18.4	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 15/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /02

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	15/10/2018	151.46 X 149.98 X 150.52	22716	**8.677**	531.2	23.4	22.9
2	RCC	M20	17/09/2018	15/10/2018	151.10 X 151.68 X 149.32	22919	**8.176**	508.6	22.2	
3	RCC	M20	17/09/2018	15/10/2018	150.81 X 149.62 X 151.74	22565	**9.096**	523.8	23.2	

Note:
The results pertain to the samples received and tested.
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 24/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /03

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	24/09/2018	151.78 X 150.80 X 151.02	22889	**8.994**	418.1	18.3	18.3
2	RCC	M20	17/09/2018	24/09/2018	150.72 X 151.97 X 151.94	22905	**8.698**	420.8	18.4	
3	RCC	M20	17/09/2018	24/09/2018	151.94 X 151.22 X 151.19	22975	**8.707**	416.8	18.1	

Note:
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AEE (VRP) SD

FOR CIVIL Pro,

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 15/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /04

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	15/10/2018	149.81 X 151.40 X 150.51	22680	**8.656**	528.2	23.3	23.2
2	RCC	M20	17/09/2018	15/10/2018	150.88 X 149.12 X 151.87	22499	**8.162**	513.0	22.8	
3	RCC	M20	17/09/2018	15/10/2018	149.84 X 150.14 X 151.98	22497	**8.175**	528.3	23.5	

Note:

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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 24/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /05

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	24/09/2018	149.39 X 151.23 X 150.16	22592	**8.683**	420.0	18.6	18.4
2	RCC	M20	17/09/2018	24/09/2018	150.80 X 149.22 X 149.72	22502	**8.834**	414.8	18.4	
3	RCC	M20	17/09/2018	24/09/2018	150.86 X 149.73 X 150.92	22589	**8.757**	409.6	18.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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AEE (VRP) SD

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 15/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample ID No : 2018-12-07-32 /06

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	17/09/2018	15/10/2018	151.25 X 149.80 X 151.79	22658	**8.109**	529.3	23.4	23.1
2	RCC	M20	17/09/2018	15/10/2018	151.83 X 151.68 X 151.21	23029	**8.136**	514.1	22.3	
3	RCC	M20	17/09/2018	15/10/2018	151.66 X 150.66 X 150.61	22849	**8.121**	541.0	23.7	

Note:
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All information furnished by Customer/Representative
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AEE (VRF) BU

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 26/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-2018

Sample ID No : 2018-12-07-32 /01

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	149.93 X 149.90 X 150.92	22475	**8.717**	415.6	18.5	18.5
2	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	150.88 X 151.81 X 149.62	22906	**8.834**	413.9	18.1	
3	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	149.66 X 150.51 X 151.96	22525	**8.972**	427.0	19.0	

Note:
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AEE (VNP) BU

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2018

Lab ID : **CP-2018-12-07-32**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-2018

Sample ID No : 2018-12-07-32 /02

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	151.64 X 150.83 X 151.05	22871	**8.766**	540.1	23.6	23.0
2	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	150.14 X 149.91 X 149.37	22507	**8.716**	498.2	22.1	
3	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	149.33 X 151.22 X 150.37	22582	**8.901**	526.2	23.3	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/09/2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-2018
Sample ID No	:	2018-12-07-32 /03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	150.11 X 151.32 X 149.81	22715	**8.842**	421.1	18.5	18.7
2	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	151.44 X 151.40 X 151.13	22928	**9.061**	429.9	18.8	
3	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	150.10 X 149.40 X 149.63	22424	**8.593**	421.0	18.8	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 17/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-2018

Sample ID No : 2018-12-07-32 /04

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	150.19 X 149.11 X 151.75	22395	**8.132**	520.1	23.2	23.3
2	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	150.01 X 150.21 X 149.88	22532	**8.967**	514.0	22.8	
3	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	151.53 X 151.65 X 149.10	22980	**8.157**	547.0	23.8	

Note:
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Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-07-32** **Date: 26/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-09-2018

Sample ID No : 2018-12-07-32 /05

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	150.30 X 150.57 X 150.27	22630	**9.068**	417.2	18.4	18.3
2	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	149.10 X 150.58 X 150.64	22452	**8.749**	408.1	18.2	
3	Cement Concrete Pavement	M20	19/09/2018	26/09/2018	149.30 X 151.53 X 151.30	22624	**8.792**	416.0	18.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2018

Lab ID	:	**CP-2018-12-07-32**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-09-2018
Sample ID No	:	2018-12-07-32 /06
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	149.49 X 149.96 X 149.37	22417	**8.568**	528.5	23.6	23.1
2	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	151.26 X 150.12 X 151.69	22708	**8.613**	509.0	22.4	
3	Cement Concrete Pavement	M20	19/09/2018	17/10/2018	151.47 X 151.63 X 151.05	22969	**8.558**	536.5	23.4	

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-07-32** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer's Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-2018
Sample ID No	:	2018-12-07-32 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-09-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	514	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	526	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	542	664	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-07-32** **Date: 09-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-32 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-12-07-32** **Date: 08-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-32 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.49	250.36	1.116	31564	80.9	2.6	2.4	3.0
2	Cover Slab-2	200.51	250.42	1.122	31570	82.3	2.6	2.4	3.0
3	Cover Slab-3	200.36	250.49	1.118	31523	81.5	2.6	2.4	3.0

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2018-12-07-32** **Date: 08-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-2018

Sample ID No : 2018-12-07-32 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 05/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.04	165.55	2.864	7859	142.1	18.1	18.1	22.6
2	B	100.01	165.46	2.793	7854	145.2	18.5	18.5	23.1
3	C	100.03	165.57	2.815	7857	145.1	18.5	18.5	23.1

Note:
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Quality Manager

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****End of Report****

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 20-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-10-2018
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	18-10-2018
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Authorized Signatory
Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 24-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-2018
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	22-10-2018
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	400	400	3.6	96.4	95-100
22.4	2000	2400	21.8	78.2	60-80
11.2	2700	5100	46.4	53.6	40-60
4.75	1700	6800	61.8	38.2	25-40
2.36	1200	8000	72.7	27.3	15-30
0.6	100	8100	73.6	26.4	8-22
0.075	1500	9600	87.3	12.7	0-5

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Authorized Signatory
Quality Manager

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2018-12-07-32 **Date: 27-10-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-12-07-32/01

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 25-10-2018

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	50	50	1.0	99.0	90-100
9.5	950	1000	20.0	80.0	70-88
4.75	1100	2100	42.0	58.0	53-71
2.36	650	2750	55.0	45.0	42-58
1.18	450	3200	64.0	36.0	34-48
0.6	200	3400	68.0	32.0	26-38
0.3	500	3900	78.0	22.0	18-28
0.15	100	4000	80.0	20.0	12-20
0.075	650	4650	93.0	7.0	4-10
PAN	350	5000	100	0.0	0

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Quality Manager

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2018-12-07-32** **Date: 29-10-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-12-07-32/01

Type of Mix : BC(Bitumenous Concrete)

Date of test : 25-10-2018

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 29-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	25-10-2018
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	25-10-2018

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-07-32** **Date: 07-11-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 05-11-2018

Sample ID No : 2018-12-07-32/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 05-11-2018

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.60	4.99
4	Average percentage	%	4.8	

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Lab ID : **CP-RW-2018-12-07-32** **Date: 07-11-2018**

Sample ID : **2018-12-07-32/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	88	266	55.8	44.2	42-58
1.18	29	295	61.8	38.2	34-48
0.6	11	306	64.2	35.8	26-38
0.3	46	352	73.8	26.2	18-28
0.15	45	397	83.2	16.8	12-20
0.075	55	452	94.8	5.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-07-32** **Date: 24-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.
Agency	:	Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.
Customer Reference	:	BBMP/EE/BTP/WO/88/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-2018
Sample ID No	:	2018-12-07-32/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	22-10-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.0	301.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.0	77.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.7	223.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	23.9	25.6
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2018-12-07-32** **Date: 29-10-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-12-07-32/01

Type of Mix : BC (Bituminous Concrete)

Date of test : 25-10-2018

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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Quallity Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-07-32** **Date: 24-10-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-2018

Sample ID No : 2018-12-07-32/01

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 22-10-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	16.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
Combined Flakiness and Elongation Index for WMM	30.4%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : **CP-RW-2018-12-07-32** **Date: 23-10-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Package-1,(Includes 8 works) 1)Improvements to roads and Drains at Krishna Green Apartment Cross Roads at Deshabandunagara in ward no 09 vidyaranyapura,2)Construction of Culverts in Ward No 09vidyaranyapura,3)Improvements to Road and drains at 1st main hanuman layout main road in ward no 09 vidyaranyapura4)Improvements to road and drains at N T Layout 3rd cross in ward no 09 vidyaranyapura,5)Improvements to road and drains at resina from Deshabandunagara in ward no 09 vidyaranyapura,6)Construction of toilet block at samudaya bhavana and balance portion of cincrete road at kempegowdanagara in ward no 09 vidyaranyapura,7)Improvements to road and drains at 9th main Deshabandunagara in ward no 09 vidyaranyapura,8)Improvements to road and drains at behind kote anjaneyaswamy temple cross roads virupakshapura in ward no 09 vidyaranyapura.

Agency : Alankar K.B #12, MSV Network Road, Near Shobha Appartment, Amruthahalli,Sahakaranagara(P) Bangalore-560092.

Customer's Reference : BBMP/EE/BTP/WO/88/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-2018

Sample ID No : 2018-12-07-32/01

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 22-10-2018

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	51.4	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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****End of Report****

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